THOMSON MULTI MEDIA

Brandt FERGUSON **NORDMENDE** SABA **TELEFUNKEN** THOMSON

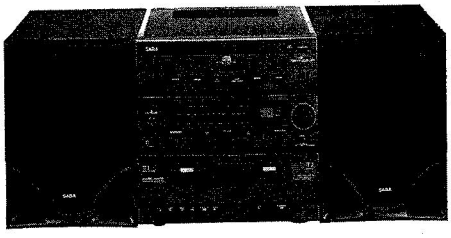
AUDIO

SERVICE MANUAL
DOCUMENTATION TECHNIQUE
TECHNISCHE DOKUMENTATION
DOCUMENTAZIONE TECNICA
DOCUMENTACION TECNICA

CS 3150 L
CS 3150 M
CS 3151 M

Version (PC*) : A

*PC : The version code is indicated either in the battery compartment or on the back of the unit - Ce code version est indiqué dans le compartiment à piles ou au dos de l'appareil - PC : Version des Geräts wird im Batteriefach oder auf der Rückseite angegeben - Il codice della versione è indicato nello scompartimento delle batterie o sul retro dell'apparecchio - El código de la versión está indicado en el compartimento de las pilas o en la parte trasera del aparato.



Technical data - Caractéristiques principales
Technische Daten - Dati tecnici - Caracteristicas del aparato

Type of set : **Type d'appareil :** **Geräteart :** **Tipo d'apparecchio :** **Tipo de aparato :**	Cassette radio recorder / compact disc Combiné radio cassette / CD CD-Radio Cassetten Kompaktanlage Insieme radio cassette / CD Radio cassette / CD	↔ 540 mm ↕ 186 mm ↗ 236 mm 3,8 kg	
Power supply : **Alimentation :** **Stromversorgung :** **Alimentazione :** **Alimentación :**	230 V ~	**Nominal output power :** **Puissance nominale de sortie :** **Nennausgangsleistung :** **potenza nominale di uscita :** **Potencia nominal de salida :**	2 x 1,2 W (Rms)
FM -MF : **MW - PO :** **LW - GO :**	87,5 - 108 MHz 522 - 1611 kHz 148 - 284 kHz	**Sensitivity :** **Sensibilité :** **FM -MF :** **Empfindlichkeit :** **MW - PO :** **Sensibilità :** **LW - GO :** **Sensibilidad :**	8 µV (S/N = 26 dB) 1000 µV/m (S/N = 20 dB) 2500 µV/m (S/N = 20 dB)
Frequency response : **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	150 Hz - 6 kHz (-5 dB)	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	42 dB
Wow and fluttter : **Fluctuations :** **Gleichlauf :** **Fluttuazioni :** **Fluctuaciones :**	0,5 %	→	4,75 cm/s C60 : 170 s
DAD **Disc rotation speed :** **Vitesse de rotation du disque :** **CD-Drehgeschwindigkeit :** **Velocità di rotazione del disco :** **Velocidad de rotación del disco :**	200 ➡ 500 tr/m	**Frequency response :** **Courbe de réponse :** **Frequenzgang :** **Curva di risposta :** **Curva de respuesta :**	100 Hz - 16kHz (±3 dB)
Dynamic range : **Gamme dynamique :** **Dynamikumfang :** **Dinamica :** **Dinámica :**	65 dB	**Signal to noise ratio :** **Rapport signal / bruit :** **Geräuschspannungsabstand :** **Rapporto segnale / disturbo :** **Relación señal / ruido :**	65 dB

⚠

WARNING : *Before servicing this set read the safety recommendations.*
ATTENTION : *Avant toute intervention sur cet appareil, lire les recommandations de sécurité.*
ACHTUNG : *Bei jedem Eingriff im Gerät, die Sicherheitsvorschriften beachten.*
ATTENZIONE : *Prima di intervenire sull'apparecchio, leggere le norme di sicurezza.*
IMPORTANTE : *Antes de cualquier intervención, leer las recomendaciones de seguridad.*

Code : 350 417 10 - 0597 / 4,1M- CRKD1217 Print.

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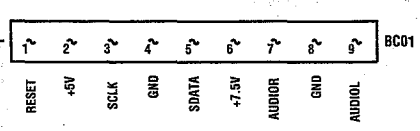
DANGER :	Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
ATTENTION :	Le rayon laser est invisible. Eviter l'exposition directe lors de la maintenance.
VORSICHT BEI REPARATUREN :	Bei geöffneter Schublade und Defekt der Sicherheits - vorrichtungen besteht die Gefahr unsichtbaren Laserlichts. Niemals direkt in den Laserstrahl sehen.
ATTENZIONE :	Il raggio laser è invisible. Evitare l'esposizione diretta durante la manutenzione.
IMPORTANTE :	El rayo laser es invisible. Evitar la exposición directa en el momento del mantenimiento.

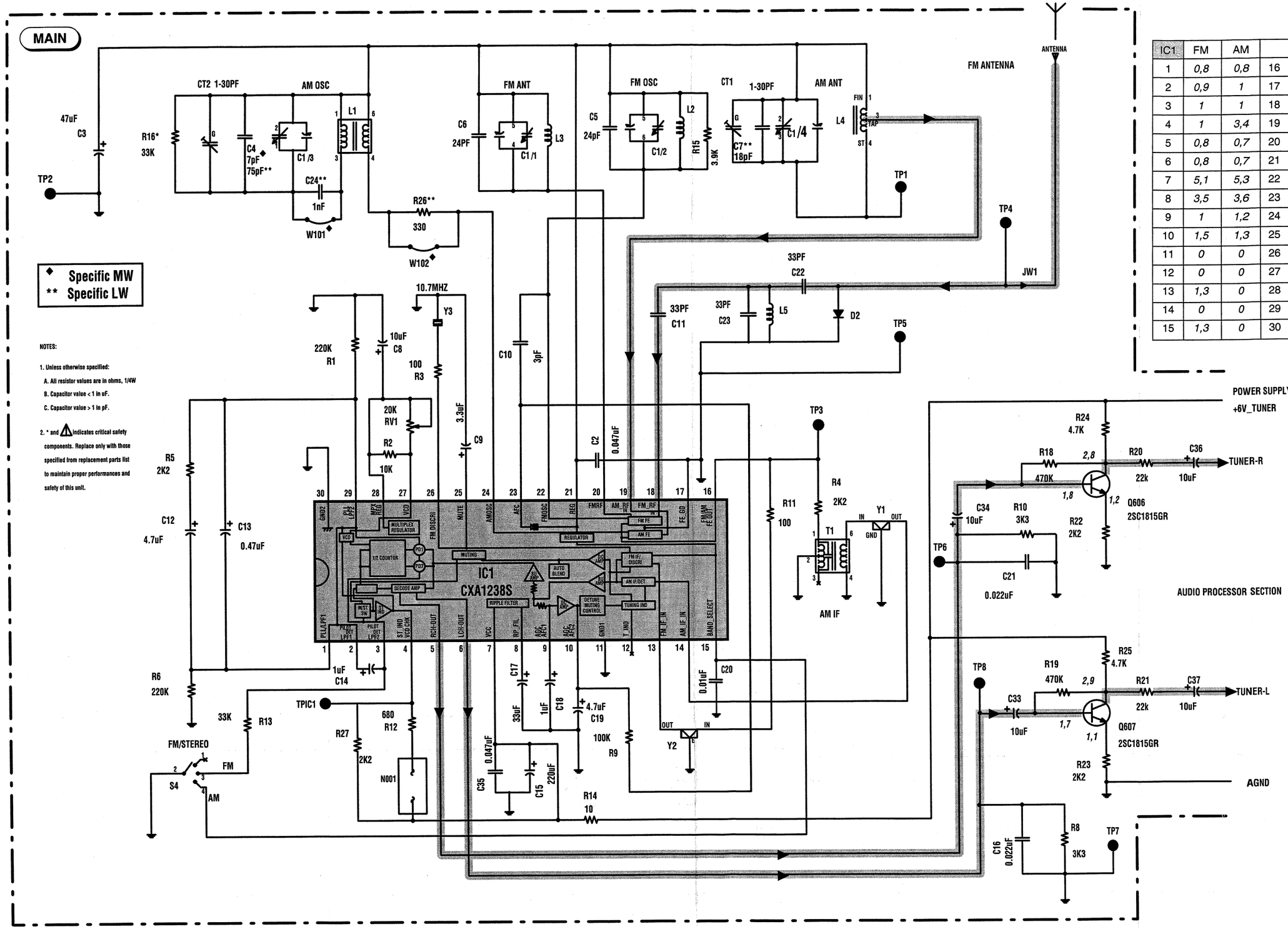
DIGITAL PROCESSING SCHEMATIC DIAGRAM - SCHEMA DU TRAITEMENT DIGITAL - SCHALTBILD DIGITALVERARBEITUNG - SCHEMA ELABORAZIONE DIGITALE - ESQUEMA DEL TRATAMIENTO DIGITAL

The complete Digital Processing Module is available from A. S. S. under Part Number :
En SAV, l'ensemble du module traitement digital es géré sous le code :
Die Service Bestell-Nr. für das Modul "Digital Processing kompl." ist :
Il codice del modulo completo di elaborazione digitale è :
En postventa, el modulo completo tratamiento digital lleva el código :

103 804 30

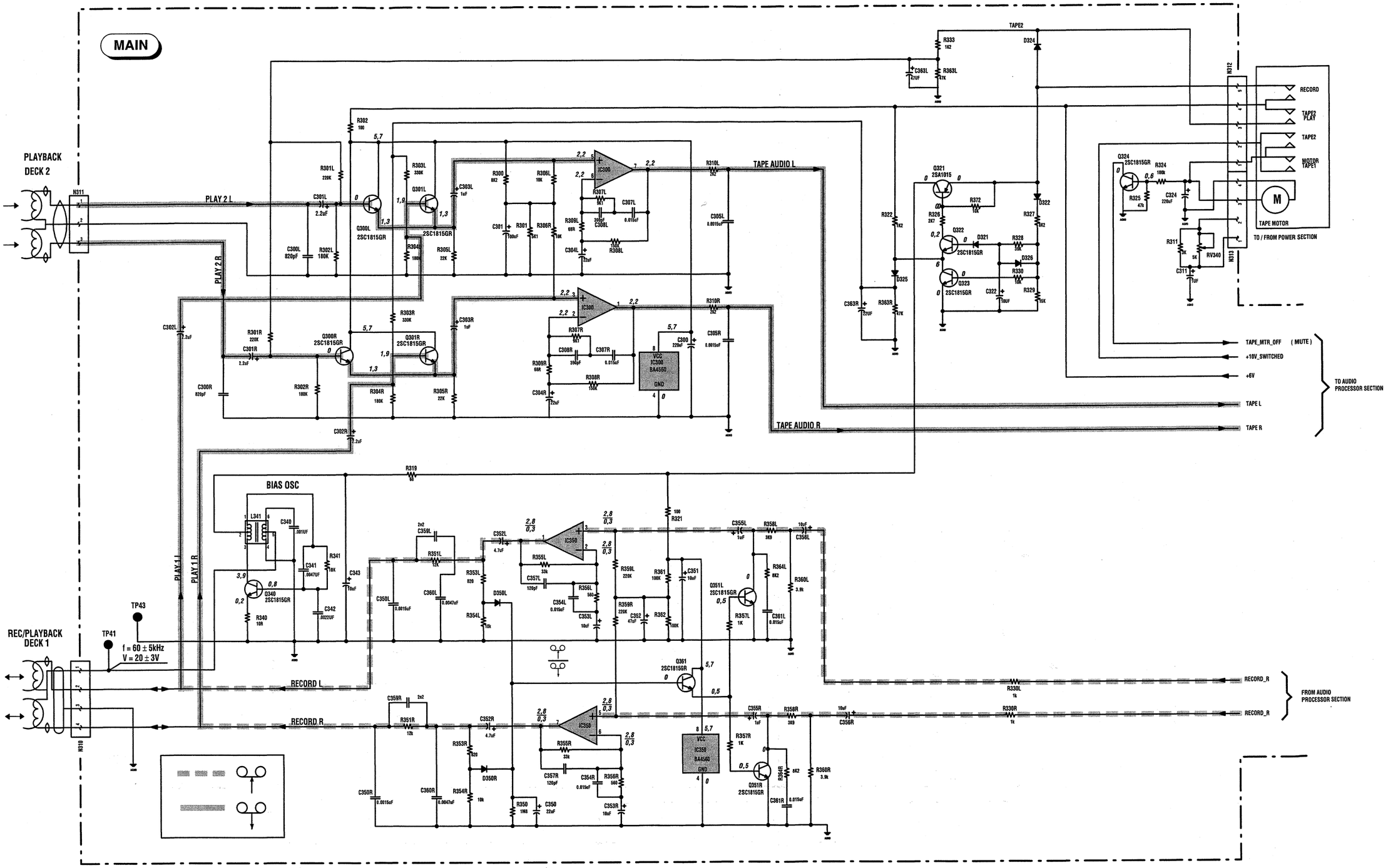


RF / FI SCHEMATIC DIAGRAM - SCHEMA HF / FI - HF / ZF SCHALTBILD - SCHEMA HF / FI - ESQUEMA RF / FI

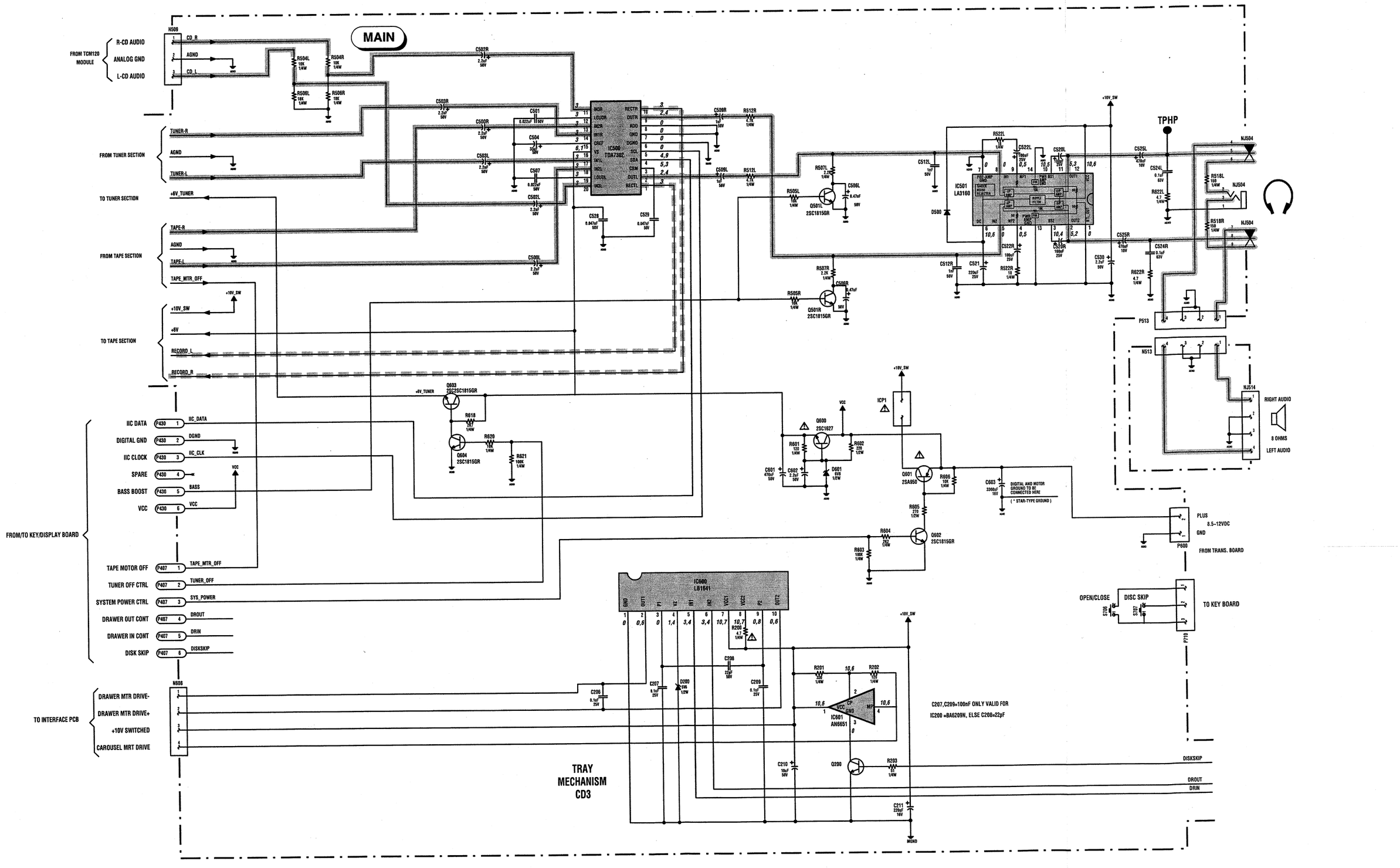


IC1	FM	AM		FM	AM
1	0,8	0,8	16	0,8	0,2
2	0,9	1	17	0	0
3	1	1	18	0,3	0
4	1	3,4	19	1,2	1,2
5	0,8	0,7	20	1,2	1,2
6	0,8	0,7	21	1,2	1,2
7	5,1	5,3	22	1,2	1,2
8	3,5	3,6	23	1,3	1,3
9	1	1,2	24	0,9	1,2
10	1,5	1,3	25	1	0
11	0	0	26	3	3,6
12	0	0	27	1,6	1,4
13	1,3	0	28	1,6	1,7
14	0	0	29	0,9	0,9
15	1,3	0	30	0	0

RECORD / PLAYBACK SCHEMATIC DIAGRAM - SCHEMA ENREGISTREMENT / LECTURE - AUFNAHME / WIEDERGABE SCHALTBILD - SCHEMA REGISTRAZIONE / RIPRODUZIONE - ESQUEMA GRABACION / REPRODUCCION



AMPLIFIER SCHEMATIC DIAGRAM - SCHEMA DE L'AMPLIFICATEUR - SCHALTBILD ENDVERSTÄRKER - SCHEMA AMPLIFICATORE - ESQUEMA DEL AMPLIFICADOR



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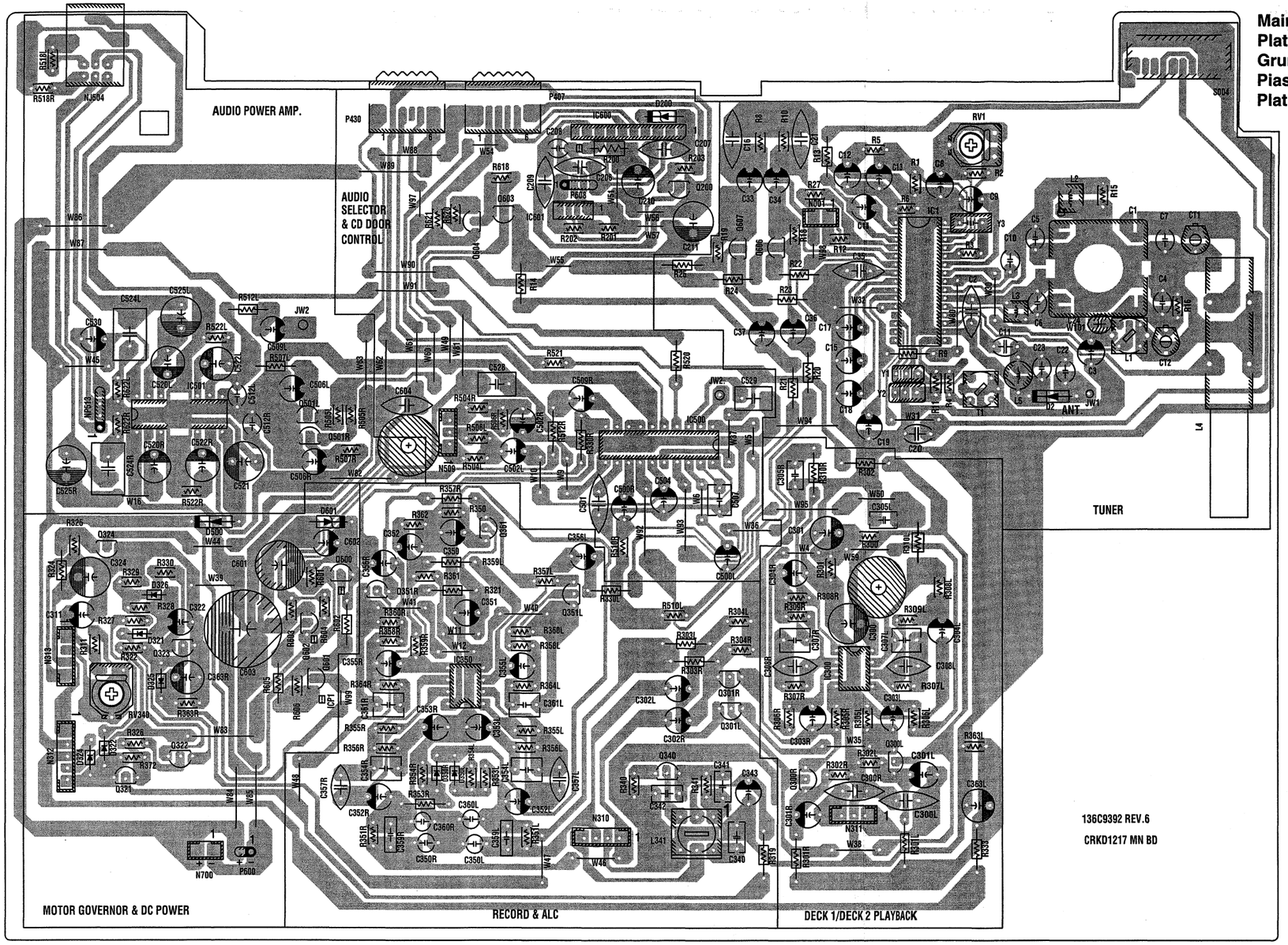
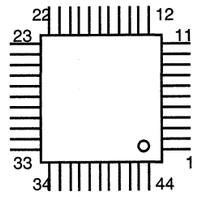
Main P.C.B.
Platine principale
Grundplatte
Piastra principale
Platina principal



Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Controls P.C.B.
Platine commandes
Ltpl. Bedienteil
Piastra comandi
Platina de mandos



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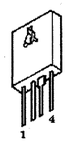

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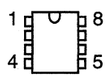

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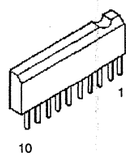
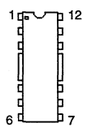
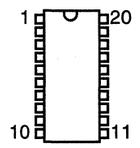


LB1641



LA3160



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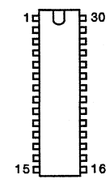
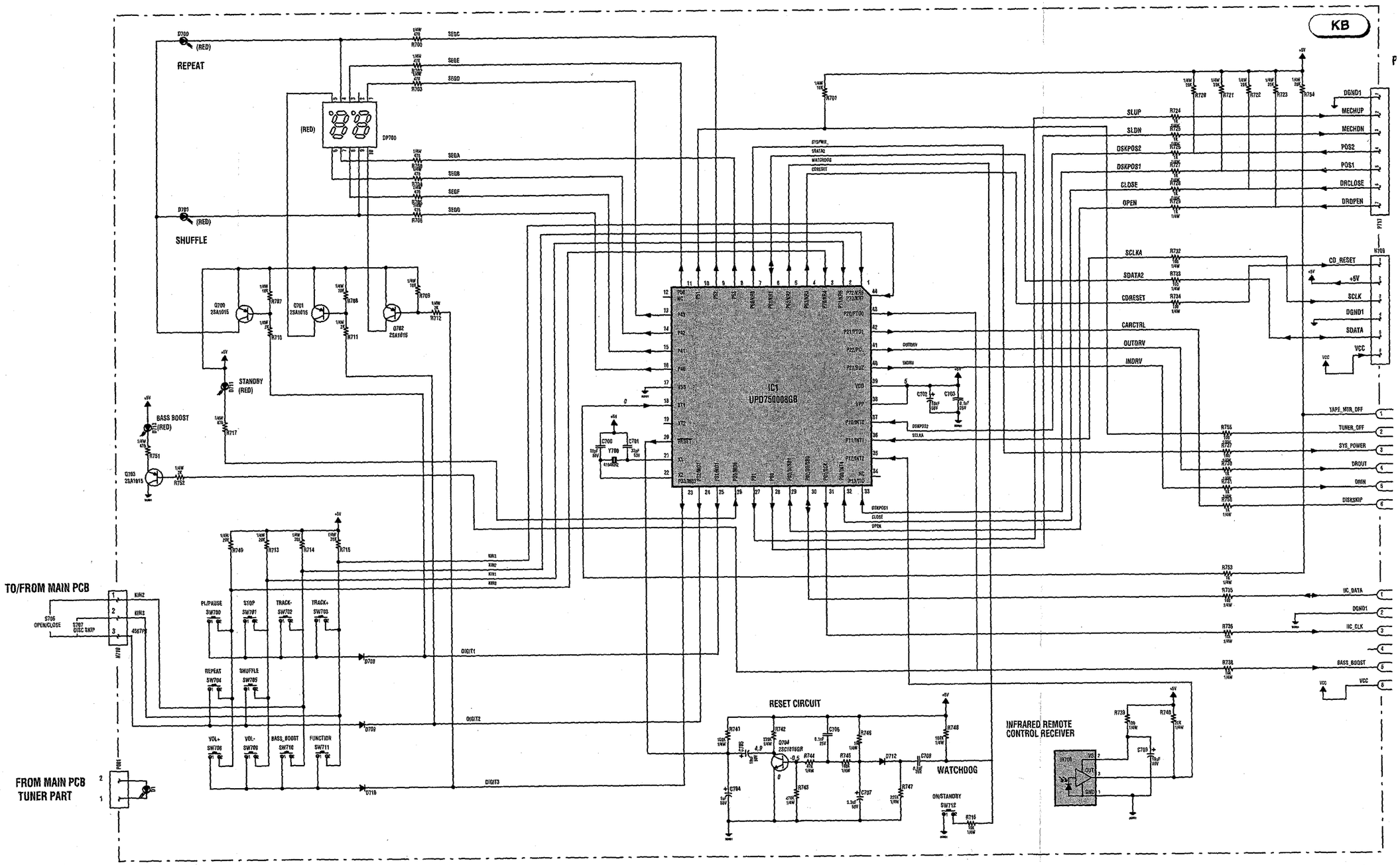
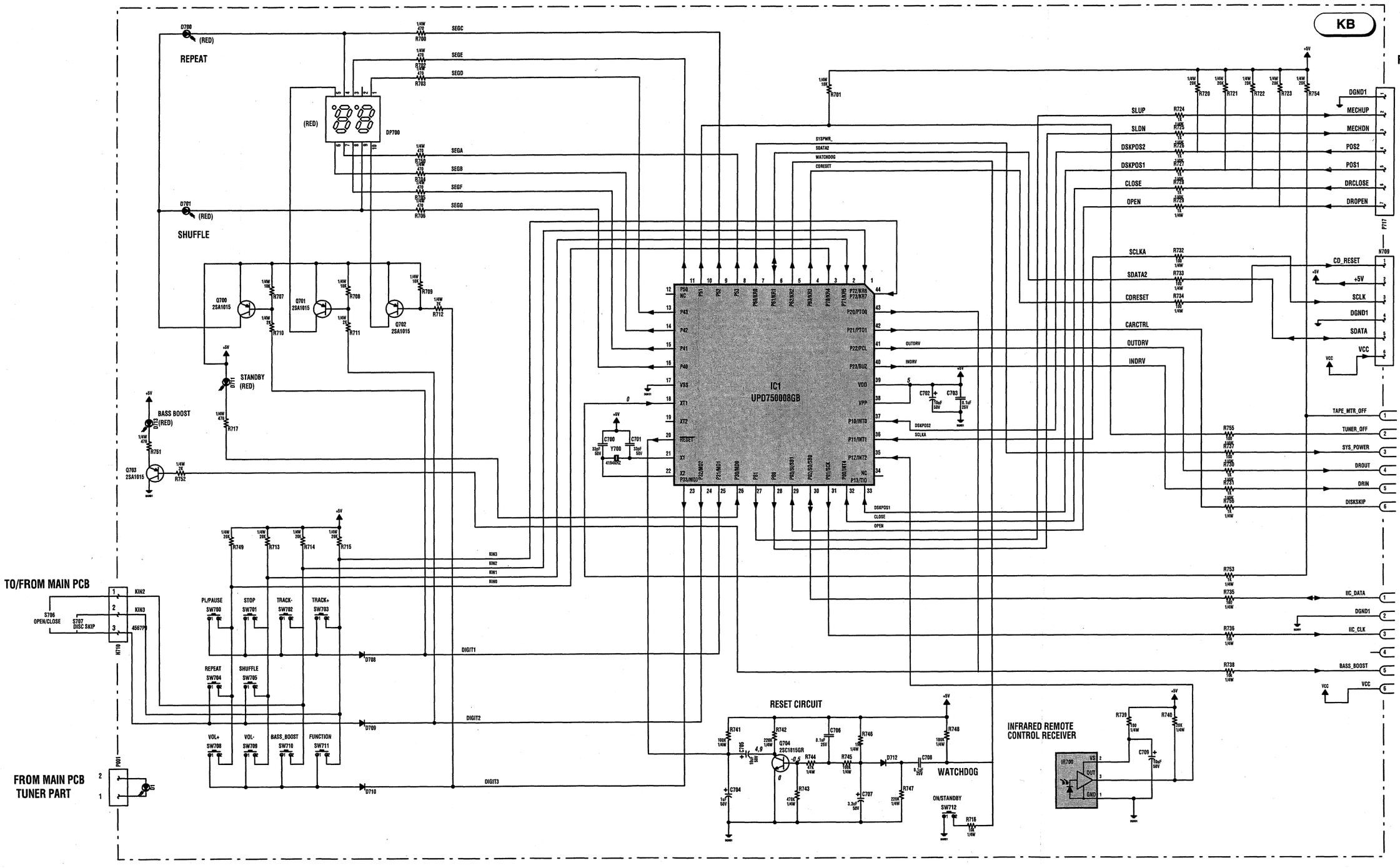


CXA1238S

CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / IN



CONTROL / DISPLAY SCHEMATIC DIAGRAM - SCHEMA COMMANDES / AFFICHEUR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / IN



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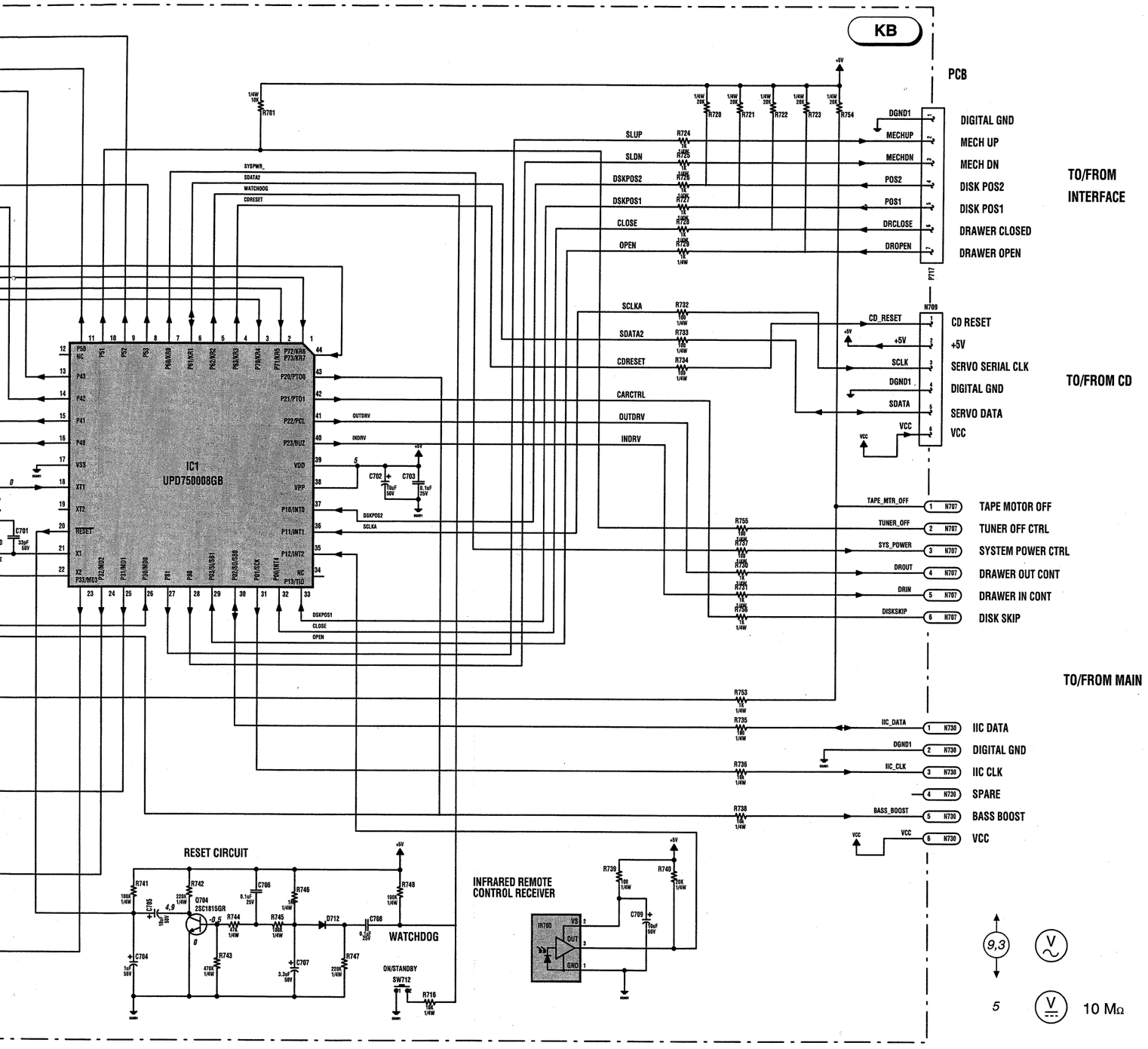
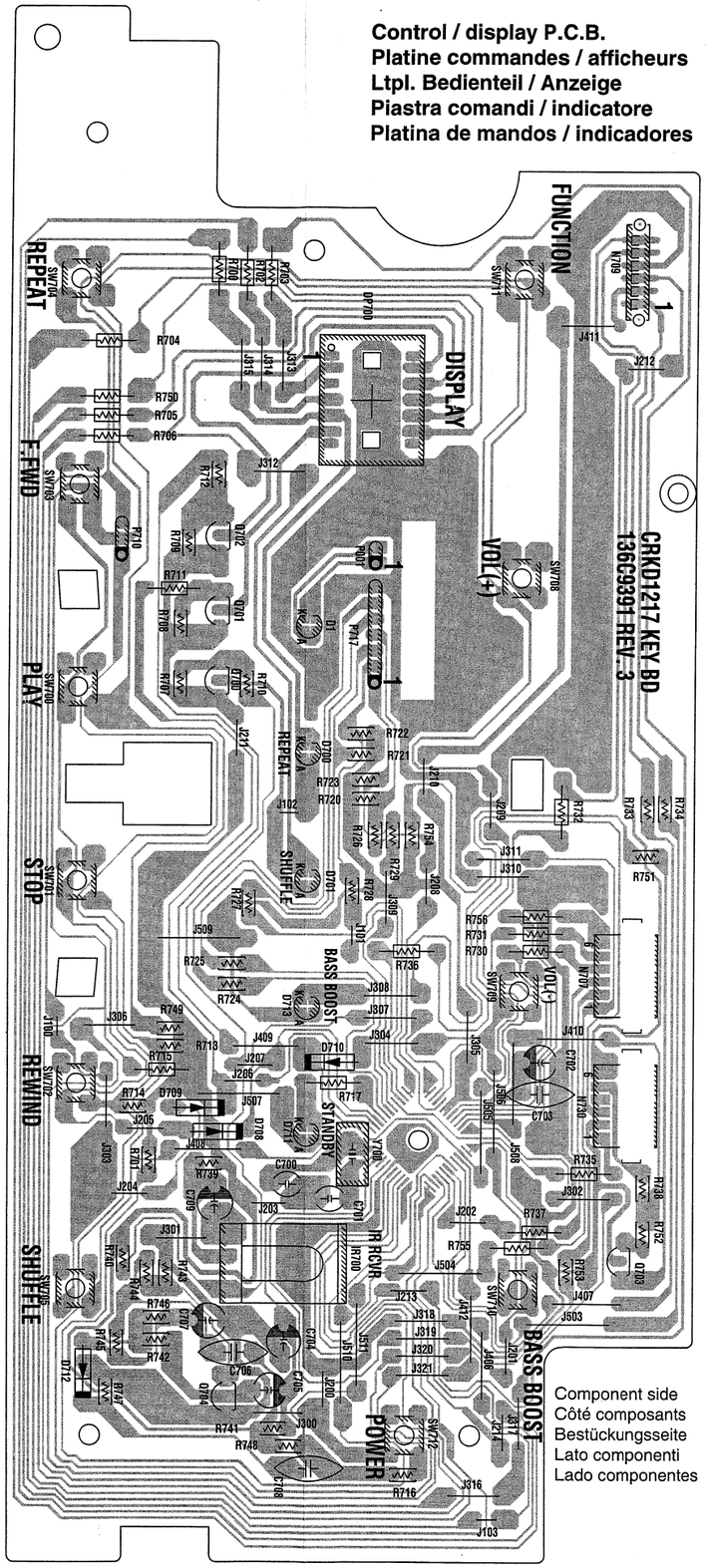
UR - BEDIENTEIL / ANZEIGE SCHALTBILD - SCHEMA COMANDI / INDICATORE - ESQUEMA MANDOS / INDICADOR

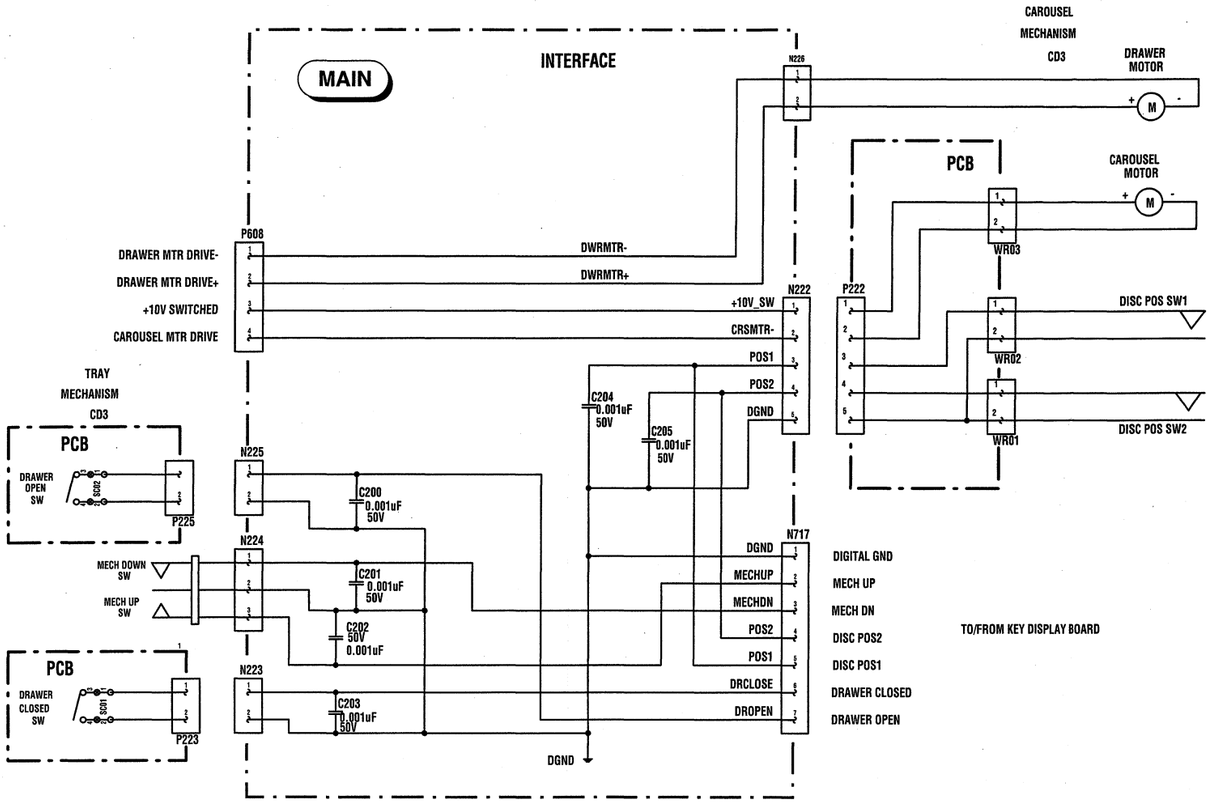


Control / display P.C.B.
Platine commandes / afficheurs
Ltpl. Bedienteil / Anzeige
Piastra comandi / indicatore
Platina de mandos / indicadores

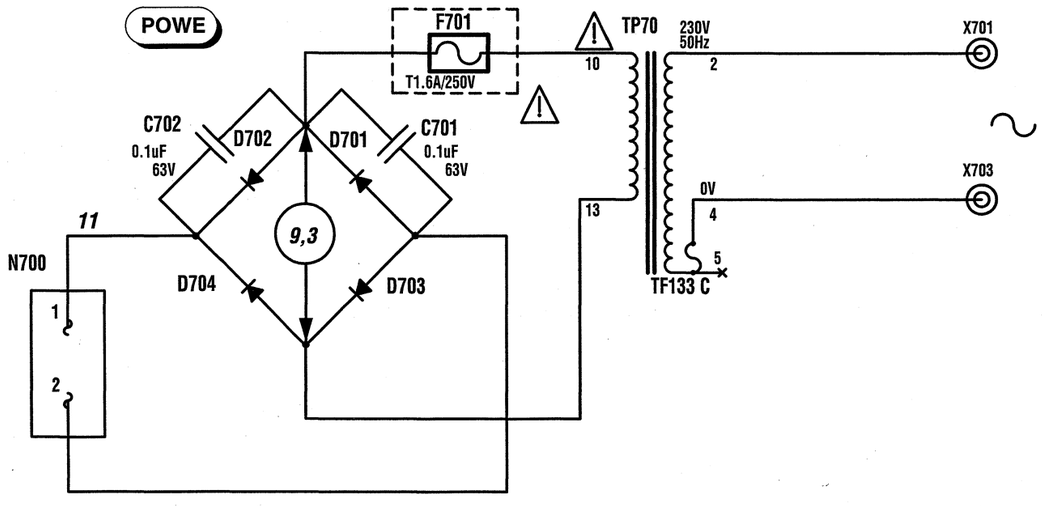


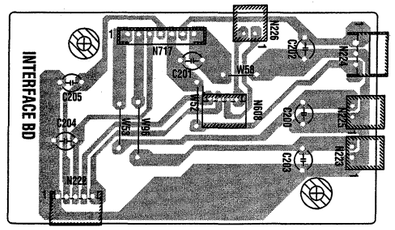
Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

INTERFACE SCHEMATIC DIAGRAM - SCHEMA D'INTERFACE - SCHALTBILD INTERFACE - SCHEMA DEI INTERFACCIA - ESQUEMA DEL INTERFACE



POWER SUPPLY SCHEMATIC DIAGRAM - SCHEMA DE L'ALIMENTATION - NETZTEIL SCHALTBILD - SCHEMA DELLA ALIMENTAZIONE- ESQUEMA DE LA ALIMENTACION

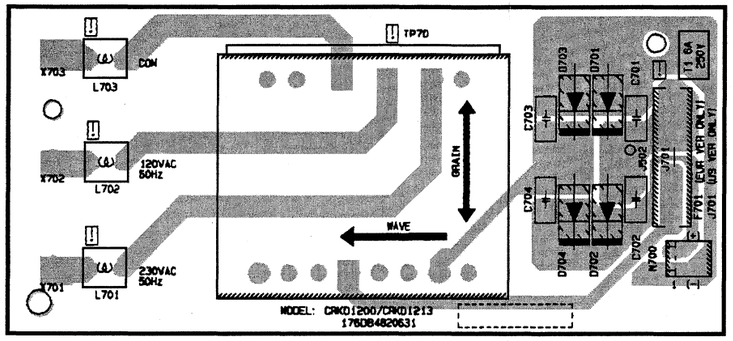




Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Interface P.C.B.
Platineinterface
Ltpl. Interface
Piastra interfaccia
Platina interface

Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

FM			AM		
18888 KHZ		18888 KHZ	18888 KHZ		
108 MHz	C1-2	TPHP max.	455 kHz	T1	TP6 max.
87,5 MHz	L2		1620 kHz / 248 kHz**	C1-3 / CT2**	TPHP max.
90 MHz	L3	TPHP max.	525 kHz /	L1	
106 MHz	C1-1		600 kHz /	L4	TPHP max.
98 MHz	RV1	TPIC1 F = 76 kHz ±150 Hz	1500 kHz /	C1-4 / CT1**	

** Specific LW

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Tel. : (2) 618 76

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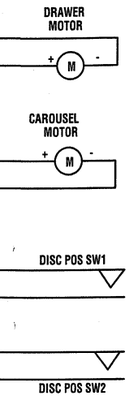
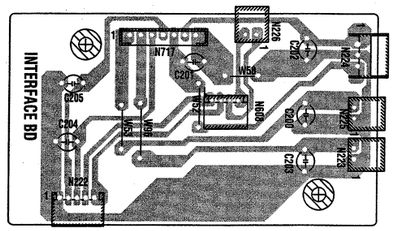
d'engagement
Beschreibung
das Recht auf
diritto di esegu
no de compro

- SCHEMA



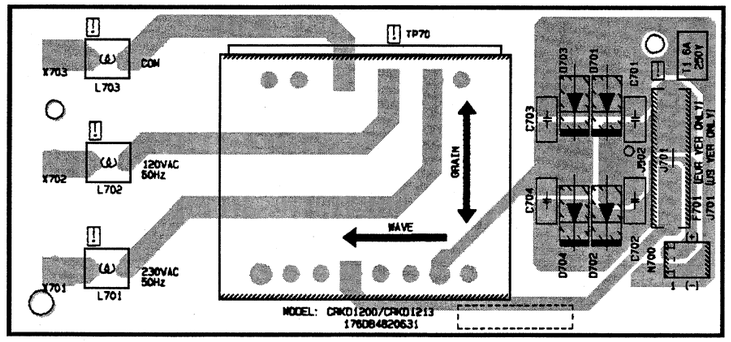
ARD



Component side
Côté composants
Bestückungsseite
Lato componenti
Lado componentes

Interface P.C.B.
Platineinterface
Ltpl. Interface
Piastra interfaccia
Platina interface

Power supply P.C.B.
Platine alimentation
Ltpl. Netzteil
Piastra alimentazione
Platina alimentación



ADJUSTMENTS - REGLAGES - EINSTELLUNGEN - REGOLAZIONE - AJUSTES

FM			AM		
18888 KHZ		18888 KHZ	18888 KHZ		
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98 MHz	RV1	TPIC1 F = 76 kHz ±150 Hz	1500 kHz /	C1-4 / CT1**	

** Specific LW

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Documentation technique exclusivement destinée aux professionnels de la maintenance
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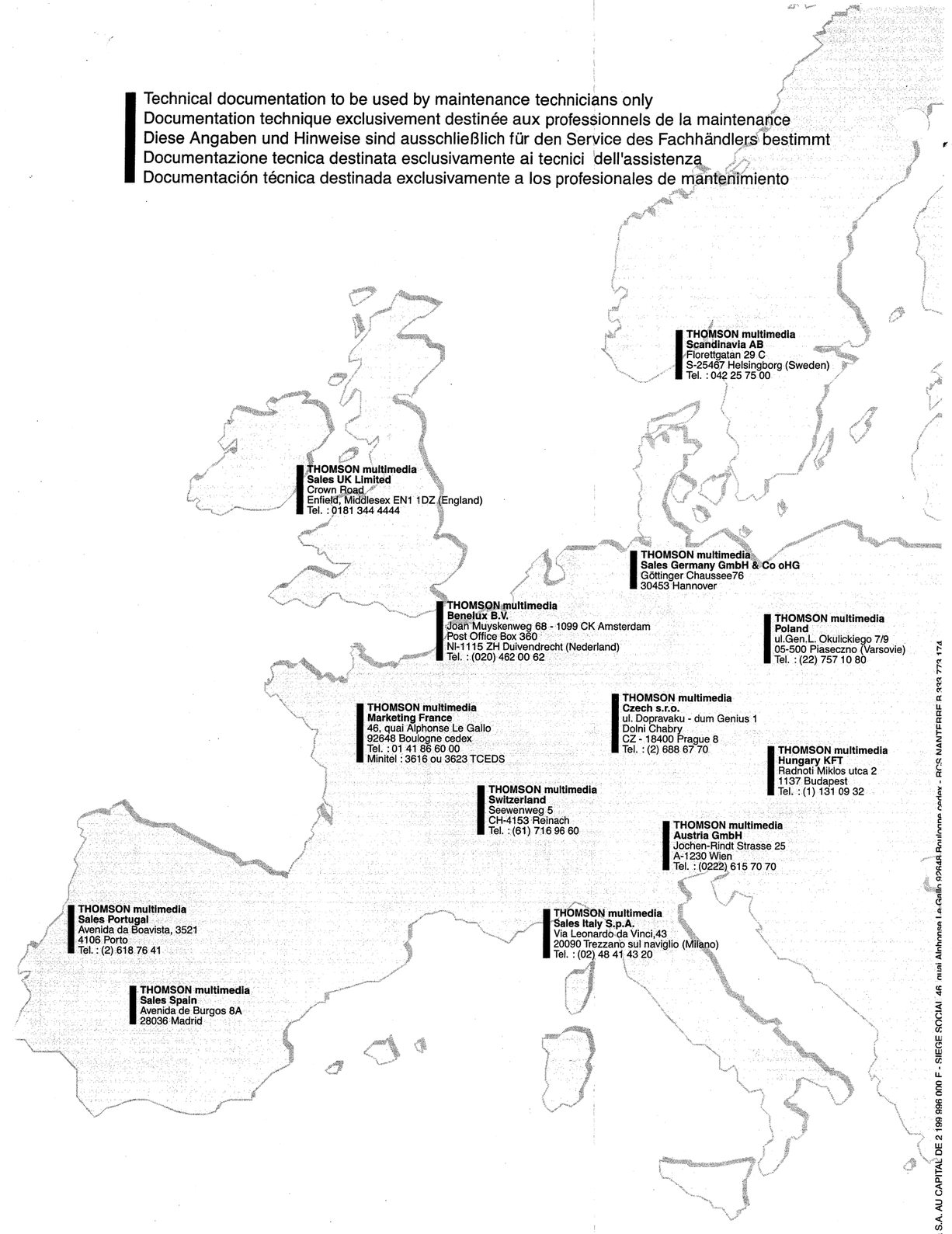
Documentazione tecnica destinata esclusivamente ai tecnici dell'assistenza
Documentación técnica destinada exclusivamente a los profesionales de mantenimiento



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